

**PART I – THE SCHEDULE**

**SECTION C – DESCRIPTIONS/SPECS./ WORK STATEMENT**

**PERFORMANCE WORK STATEMENT (PWS)**

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## **SECTION C - PERFORMANCE WORK STATEMENT**

### **C.01 OVERVIEW OF 222-S LABORATORY SERVICES**

#### **C.1.1 BACKGROUND**

##### **C.1.1.1 The Hanford Site**

The 586 square-mile Hanford Site, located in southeast Washington State, was established in the 1940s as a plutonium production complex for the Manhattan Project. Throughout Hanford's 50 years of operation, byproducts of plutonium production have accumulated to become this country's largest environmental cleanup project. In 1989, the Department of Energy (DOE), the U. S. Environmental Protection Agency, and the Washington State Department of Ecology signed the Hanford Federal Facility Agreement and Consent Order, commonly known as the Tri-Party Agreement (TPA), which codifies the DOE's commitment to clean up the Hanford Site. The TPA outlines legally enforceable project milestones for Hanford cleanup over the next several decades.

##### **C.1.1.2 Site Management**

The Hanford Site is managed by two DOE field offices, the Richland Operations Office (RL) and the Office of River Protection (ORP). ORP manages 177 underground tanks of liquid and solid radioactive chemical waste, and is responsible for construction of the Waste Treatment and Immobilization Plant (WTP). RL has responsibility for the remainder of the Hanford Site, which includes: cleanup of the river corridor, cleanup and ongoing waste management operations in the central plateau, and providing a variety of crosscutting site services (e.g., utilities, security, information technology (IT), fire department, emergency management, and occupational medical services).

##### **C.1.1.3 222-S Laboratory**

The scope of this contract is to perform the Analytical Services production functions of receiving, handling, analyzing, storing samples, performing special tests and reporting the results of these analyses and tests to the contractors of Department of Energy Offices at the Hanford Nuclear Site near Richland, Washington. These functions will be performed through a contract with the DOE Office of River Protection at the 222-S Laboratory complex, a Hazard Category 3 Nuclear Facility, located in the 200 West Area of Hanford. These services support cleanup and closure of the Hanford site and are a critical activity in achieving closure goals of all Hanford projects. As directed by the Contracting Officer, the Contractor shall perform work supporting scientific research and other DOE sites.

The 222-S Laboratory building complex is owned by DOE and managed by the Tank Operations Contractor (TOC). The TOC is also the major customer for analytical services at the 222-S Laboratory; some other site contractors are minor customers. The Contractor's work will be performed under DOE-

approved programs managed by other Hanford site contractors. The Contractor shall interface with the TOC, other customers, and site-wide program managers in a manner so as to maintain consistency of business and site practices among Hanford prime contractors. This requires close coordination with other contractors on the site that provide infrastructure, programs, and samples to be analyzed.

The Contractor shall not use offsite laboratory facilities or services to analyze Hanford samples.

#### **C.1.1.4 Sources of Samples to be Analyzed**

The samples analyzed at 222-S come from sampling activities at Tank Farms and across the Hanford site. Such activities include, but are not limited to:

- Tank waste sampling events. These samples may be liquid, solid (sludge), salt cake, or a mixture. Samples are drawn for a variety of purposes, such as corrosion monitoring, chemistry control, and caustic addition; physical, chemical and radiological characterization; waste compatibility assessments; tank closure; and hard heel (gibbsite and boehmite) dissolution studies.
- Vadose zone sampling. Samples consist of a soil matrix potentially contaminated with tank waste or separations process waste.
- Evaporator campaigns to reduce the volume of tank waste. Samples are composed of evaporator feed (tank supernate) or evaporator boildown.
- Emergent work in a variety of matrices. For example soil, building materials, air and aqueous or organic liquids. Samples may be contaminated with tank waste, separations process waste or other hazardous chemical and/or radiological materials.
- Beryllium testing. Samples are primarily 100 cm<sup>2</sup> swipes but may be other matrices, such as soil or building materials, contaminated with beryllium. Some beryllium samples may be radiologically contaminated.
- Support for demolition of Hanford's Plutonium Finishing Plant. Samples may contain high alpha contamination.
- Industrial hygiene monitoring. Samples typically consist of vapor tubes which are tested for ammonia and mercury but may include air grab samples.
- Support for groundwater monitoring. Samples may contain water soluble radionuclide species, such as cesium or pertechnetate.

### **C.1.2 LABORATORY OPERATIONS**

#### **C.1.2.1 Analytical Operations**

The Contractor shall provide analytical chemistry support for all restoration, tank waste processing and closure operations on the Hanford site. An estimated range of 15,000 to 25,000 analyses will be performed annually on individual samples, field blanks and calibration standards. The tank operations contractor (TOC) is the 222-S laboratory's primary customer, with a comparatively small amount of work required by other site contractors, DOE sites or DOE research facilities. Responsibilities will include but will not be limited to sample receipt

at the 222-S facility, sample handling and preparation, customer consultation, sample analysis, data management, issue of data reports, final sample disposition, and site standards laboratory services. Work shall be performed in compliance with DOE directives, quality assurance requirements, safety requirements, and federal and state of Washington regulations applicable to a DOE hazard category 3 nuclear facility.

Samples received at the 222-S laboratory may be highly radioactive, potentially exceeding 300 rad/hour (3 Gy/hour) with a significant portion gamma. The Contractor sample custodian shall work closely with the facility special nuclear materials inventory steward to manage inventory levels and maintain compliance with the Technical Safety Requirements shown in Attachment J.6. The 222-S analytical services Contractor shall be responsible for hot cell operations necessary for sample receipt, preparation and distribution. The Contractor shall also receive samples not requiring hot cell work which they shall analyze or distribute to TOC personnel within the 222-S facility, or package for shipment to other facilities as required by the TOC.

The Contractor shall interface with customers to plan and schedule analytical services and tailor sample analysis methods and reporting formats to customer requirements. Planning and scheduling shall consider the cyclical nature of the laboratory workload as well as customer priorities. The Contractor shall assist with analysis method selection and develop new methods to meet evolving customer needs. The Contractor shall provide analytical support for unplanned and emergent work. Components of report formats may include raw data, data summary reports, method detection limits with qualifiers, QA data and associated QA qualifiers, and data upload into the Laboratory Information Management System (LIMS) with defined electronic deliverables. Note that OmniLIMS™ is the product used at 222-S Laboratory.

Analytical procedures developed for use in the 222-S laboratory are primarily EPA SW-846 methods with customer approved modifications for laboratory worker safety. Industrial hygiene procedures are based upon NIOSH methods. Radiochemistry protocols are generally based upon commercially available technologies or have been developed by the 222-S Laboratory specifically for use in the facility.. Samples will be in a variety of different liquid, solid and gas matrices. Work will include organic chemistry, inorganic chemistry, radiochemistry and physical characterization of sample material. Attachment C.1 of this section lists required analytical chemistry capabilities. The Contractor shall strictly adhere to sample holding time requirements defined by the customer according to expected sample properties and constituents to be analyzed. Analyses shall be performed by qualified Contractor personnel utilizing appropriate provided instrumentation. The Contractor shall perform daily instrument calibration checks and routine instrument maintenance and cleaning. Section C.2.1.10.2 lists the types of instrumentation provided.

Data generated by analyses shall be reviewed, entered into the OmniLIMS™, QA reviewed by a process chemist, and written into a narrative for issuance in a final report. The Contractor shall utilize the 222-S OmniLIMS™ to track samples and manage data.

The Contractor shall adhere to the 222-S facility manager's sample waste disposal procedures. Alternatively customers may choose to have excess samples archived at the 222-S facility or returned to them. Sample archiving is described in Section C.1.2.4.

The Contractor shall perform the following chemical management functions at the 222-S Laboratory: chemical procurement needs to the TOC ; quality assurance; receiving, unpacking, inspection, storage, and tracking; compiling data to meet reporting requirements; and maintaining compliance with safety and chemical hygiene requirements.

The Contractor shall participate in the Operating Experience (OpEx) lessons learned program.

The Contractor shall support TOC's planning for the development of 222-S laboratory annual and multi-year tank waste treatment baselines. Support will include providing information on laboratory work activities, inspecting and documenting the condition of the facility and equipment, assessing necessary laboratory upgrades and renovations, and estimating the materials and developing the assumptions required for providing continued analytical services at the 222-S laboratory. The contractor shall provide the foregoing information formally or informally, as necessary after the completion of the transition period, for the TOC to maintain awareness, develop their project baselines, and produce 222-S Laboratory/Performance Status Reports (Deliverable C-03).

The Contractor shall meet all holding time deadlines. Holding times are the length of time from sample collection allotted to the Contractor to perform sample analysis and are not negotiable. Holding times are established by regulatory organizations to prevent sample degradation and are dependent upon the analyte and testing methodology.

#### **C.1.2.2 Development of Laboratory Standards and Reagents**

The Contractor shall produce analytical reagents and standards for use in the 222-S facility. The Waste Sampling and Characterization Facility (WSCF), a Hanford site environmental laboratory, may be an additional analytical standards customer requiring 150 to 200 preparations annually.

The Contractor shall perform routine standards inventory maintenance, chemical stabilization and document traceability to National Institute of Standards and Technology (NIST) standards. In addition, the standards laboratory may be asked to clean and chemically inactivate sample collection equipment.

#### **C.1.2.3 Development of New Analytical Methods**

The Contractor shall work with the TOC to determine needs for new and replacement instruments, and shall be responsible for developing methods and procedures for all new instruments delivered to the Laboratory.

In addition, the Contractor shall develop new analytical methods each fiscal year to meet customer requirements.

#### **C.1.2.4 Sample archiving**

Customers may request to have samples which are analyzed at the 222-S laboratory archived by the lab. The Contractor shall be responsible for sample archiving, sample reconstitution, documentation and tracking of archive samples and annual archive maintenance. The Contractor shall notify customers annually of their archive inventory and make requests to dispose of samples that are no longer needed.

#### **C.1.2.5 Workload and Customer Interface Management**

The Contractor shall work with its customers to develop Service Level Agreements (SLAs) for each fiscal year or more often if mutually agreeable. In the case of non-TOC customers, the SLAs shall indicate, for each set of similar samples or activities, the cost of the work broken out into direct analytical cost and readiness-to-serve components. Prior to implementation the SLAs (Deliverable C-13) shall be submitted to DOE for review and approval. The SLAs shall describe the task requirements including reporting format and shall contain a level of detail sufficient for DOE to determine whether the proposed cost is reasonable.

The Contractor shall deliver final sample analysis reports (deliverables) to the customer on or before the date agreed upon with the customer at sample receipt. The time allotted for generation and transmittal to the customer of a final deliverable is generally dependent upon sample characteristics, analyses requested and report format requirements.

### **C.02 SCOPE ALLOCATION**

#### **C.2.1 ROUTINE ANALYTICAL SERVICES (FIRM FIXED PRICE SCOPE WITH AWARD FEE)**

The Contractor shall maintain a “readiness to serve” capability and shall provide analytical services to site customers as negotiated through Service Level Agreements. “Readiness to serve” means ability to perform the analytical work described in all approved LAT&S contractor procedures with required safety and quality. The Contractor may not turn down work for which it has applicable procedures and equipment and appropriately trained and qualified staff unless specifically approved by DOE.

The Contractor shall furnish all personnel, materials, supplies, and services and otherwise do all things necessary for, or incident to, the performance of work described above and in this section of the contract, excluding that which is specifically identified as Labor-Hour in Section C.2.2 and excluding that which is furnished directly by the Government or through other site contractors as identified in Section C.2.1.10.

#### **C.2.1.1 Management and Administration**

- (a) The Contractor shall submit a Monthly Performance Report (Deliverable C-03) representing the prior month's activities and transmit it to the Contracting Officer by the 15th of the month. The Monthly Performance Report shall be a Microsoft Powerpoint presentation that includes, at a minimum, the following:
- Manager or Chief Financial Manager narrative assessment.
  - Significant accomplishments, special activities, and process improvements.
  - Summary of the results of any self-assessments performed.
  - Number of samples expected vs. received from customers for the month and the fiscal year-to-date.
  - Summary of SLA status/updates and 30-day forecast for sample receipt.
  - List of reports issued to customers.
  - 30-day forecast for major activities and 60-day forecast for the projected volume of analytical work, planned surveillances and assessments, new laboratory methods to be developed, planned instrument purchases and retirements, staff training and qualification, and any planned initiatives related to health, safety, quality, and environmental stewardship.
  - Summary of report reissues and feedback received from customers.
  - Dollar value of work performed for each customer during that month and cumulative for the fiscal year.
  - Evaluation of performance metrics for the month and the fiscal year-to-date.
  - Status of new method development activities.
  - Summary of any unplanned events and occurrences and actions taken to address them.
  - Issues affecting Laboratory productivity.
  - Evaluation of safety performance (including ISMS metrics, radiological safety performance, and all recordable injuries, lost-time injuries, and near-misses).
  - Evaluation of the condition of infrastructure and utilities, including facilities, equipment, and systems.

The Contractor shall participate in a monthly review with the Contracting Officer and be prepared to address any of the information in the monthly report.

- (b) The Contractor shall be responsible for buying any office supplies, office computers, office furniture and other office equipment it needs beyond those transferred from the incumbent contractor.

#### **C.2.1.2 Environmental Compliance and Waste Management**

(a) Environmental Compliance

The contractor shall develop and implement an environmental management program to identify, manage, and implement measures that maintain compliance with regulatory requirements. These include, but are not limited to:

- permitting,
- environmental reporting,
- agreements negotiated by DOE with state and local authorities,
- Federal initiatives for pollution prevention, waste minimization, and sustainability (see Section J, List of Applicable DOE Orders, for implementing Orders and Directives), and
- Development of an Environmental Management System conforming to ISO 14001.

A list of Applications, Permits, and Notices of Construction applicable to the 222-S Laboratory complex is provided in Attachment J.4. The Contractor's environmental management program shall establish environmental performance objectives, measures, and commitments. It shall be developed in consultation with the TOC and shall be consistent with the TOC's program and shall ensure contractor activities are integrated within the Hanford site environmental compliance framework.

The Contractor shall compile the environmental data necessary to comply with the reporting requirements of applicable environmental laws, regulations, DOE and executive orders, and operating permits, and shall provide that data upon request to MSC, TOC, and DOE.

The Contractor shall cooperate with the TOC and MSC to report, track, and address environmental compliance issues affecting 222-S Laboratory facilities. The contractor shall be responsible for resolving issues it causes.

The Contractor is not responsible for establishing and updating facility operating permits; however, the Contractor is responsible for ensuring its activities are compliant with facility operating permits and for providing information and support to the TOC for any modifications the Contractor requires.

(b) Waste Management

Waste management activities at the 222-S Laboratory are the responsibility of the TOC; however, they require close cooperation between the Contractor (as generator) and the TOC (as disposer) and are governed by procedures maintained by both contractors under frequent consultation with each other. Dangerous Resource Conservation and Recovery Act (RCRA) wastes are disposed in one of two ways. Approved liquid wastes are discharged through designated drains into the 219-S tank system and later trucked to the Hanford Tank Farms for long-term storage. Solid wastes and liquid wastes not approved for discharge into 219-S are accumulated in Satellite Accumulation Areas (SAAs) and 90-day Accumulation Areas (90DAAs) in accordance with state and



local codes; most of these wastes are sent to an on-site treatment, storage, and disposal facility, and a small amount is packaged and shipped offsite for treatment. The Contractor is required to comply with all policies and procedures applicable to its activities.

The Contractor is responsible for maintaining SAAs and 90DAAs located in its work areas in a safe and compliant manner. The Contractor shall support the TOC in inspection of SAAs and 90DAAs. The Contractor shall obtain advance TOC approval for each waste stream it generates, and it shall cooperate with the TOC to plan waste disposition. The Contractor shall document the contents of self-generated waste streams and assign waste codes prior to transfer to others.

The Contractor shall cooperate with the TOC in management of non-routine wastes and spills. The Contractor is responsible for cleaning up its own spills, and may seek assistance from the TOC for spills that require additional resources.

The Contractor is not responsible for the following work activities: management of the 219-S tank system; approving waste streams brought into or generated within the Lab; discharge of specific waste streams into the 219-S tank system; and packaging, collection and disposal of wastes and janitorial services for offices within the 222-S Laboratory. The Contractor is not responsible for the costs of managing and disposing of waste after it has been collected from 90DAAs, discharged into the 219-S tank system or otherwise removed from the 222-S Laboratory complex.

#### **C.2.1.3 Safety and Health**

- (a) The Contractor shall at all times assign the highest priority to worker safety and health, and shall never allow either financial or schedule considerations to compromise its commitment to the same. Laboratory work shall be performed by qualified staff in a safe manner using approved procedures and test plans. The Laboratory shall be kept in a clean and well-organized condition to promote a safe environment for workers, prevent leaks and spills, minimize fire risk, and maintain access to emergency equipment.
- (b) The Contractor shall establish an Integrated Safety Management System (ISMS), in compliance with the Section I clause, DEAR 970.5223-1 Integration of Environment, Safety and Health into Work Planning and Execution. Within 15 days of notice to proceed, the Contractor will be provided guidance on the preparation, review, and approval of the Contractor's ISMS. No later than 90 days after notice to proceed, the Contractor shall submit to the Contracting Officer for approval the Integrated Safety Management System Description (Deliverable C-07). Until DOE approves this system, the Contractor shall use the existing ISMS descriptions.
- (c) The Contractor shall comply with site-wide safety standards and procedures applicable to its work scope at the 222-S Laboratory. The Contractor shall also comply with DOE-approved worker safety and health programs that are

established by the TOC for use at the 222-S Laboratory. Records pertaining to industrial hygiene at the 222-S Laboratory are maintained by the TOC.

- (d) The Contractor shall prepare a Worker Safety and Health Plan (Deliverable C-08) as described in the clause in Section H entitled, "Worker Safety and Health Program, within 60 days of the notice to proceed." The Contractor shall designate a single point of contact among its staff who shall liaise with external entities on industrial safety and hygiene and radiological protection.
- (e) The TOC is responsible for providing and funding radiological instruments and radiological technicians. Some radiological records are kept by the TOC, MSC, and/or the testing vendor(s); however the Contractor bears the ultimate responsibility for accumulating a complete set of records and making appropriate safety decisions for its employees.
- (f) The Contractor shall actively promote a healthy safety culture among management and staff, fostering open communication, a questioning attitude, and trust. It shall provide a means for employees to anonymously raise issues affecting health and safety, and it shall participate in site-wide safety culture assessments and activities. Additional guidance may be found in DOE G 450.4-1C ISMS Guide, Attachment 10, "Safety Culture Focus Areas and Associated Attributes."

#### **C.2.1.4 Quality Assurance**

The Contractor shall submit to DOE for approval within 90 days of the notice to proceed a Quality Assurance Program (QAP) Plan (Deliverable C-12) in accordance with EM-QA-001 Revision 1, DOE O 414.1D for nuclear facilities and 10 CFR 830 Subpart A, and in compliance with the site-wide Hanford Analytical Services Quality Assurance Requirements Document (HASQARD). The Contractor shall accept and implement the existing QAP until the Contractor's QAP is approved and implemented. The Contractor's QAP shall implement, Parts I and II of the implementation standard, American Society of Mechanical Engineers (ASME) NQA-1-2008 with the NQA-1a-2009 addenda, Quality Assurance Requirements for Nuclear Facility Applications. The Contractor shall implement Parts I and II of NQA-1-2008 with the NQA-1a-2009 addenda and indicate and implement within the QAP those portions of Parts III and IV of NQA-1-2008 with the NQA-1a-2009 addenda that are to be applied to the Contractor's work scope. ASME NQA-1-2008 with the NQA-1a-2009 addenda is the national consensus standard for implementing QA Criteria of 10 CFR 830 Subpart A and DOE O 414.1D. If additional standards are required to address unique/specific work activities, the standards shall be identified within the Contractor's QAP.

The Contractor shall establish and maintain American Industrial Hygiene Association (AIHA) accreditation commensurate with a limited scope of IH analytes and the Washington Department of Ecology accreditation. The Contractor shall participate in applicable performance evaluation (PE) testing programs. PEs are analytical testing programs of samples provided by accredited third party testing laboratories to evaluate the Contractor's analytical

capability. The contractor will be required to participate in PE testing programs from several evaluation laboratories to encompass all of the analytes and methods utilized at the 222-S facility.

#### **C.2.1.5 Safeguards, Security, and Emergency Services**

The MSC is responsible for the management and execution of Hanford's site-wide Safeguards and Security (SAS) and Emergency Services programs. The Contractor's role is to maintain compliance with site security and emergency services requirements and to participate in the site-wide SAS and Emergency Services programs. Of particular importance is the Contractor's role in safeguarding Category IV accountable nuclear material kept at the 222-S Laboratory. Because the Contractor performs its work using facilities and infrastructures maintained by the TOC, coordination is required with the TOC to meet SAS and Emergency Services requirements. To facilitate the support provided by the MSC and TOC, the Contractor will interface with them in the following areas:

##### **C.2.1.5.1 Safeguards and Security**

The Contractor will not process or store classified information. The Contractor may use MSA and WRPS safeguards and security procedures, or it may develop its own procedures that comply with site wide programs.

##### **(a) Safeguards and Security Program Management.**

The Contractor shall coordinate and interface with the MSC and its subcontractors who provide safeguards and security (SAS) services (e.g., Hanford Site access control, security police officers, vulnerability analysis).

The Contractor shall perform the following SAS program management functions:

- SAS Program Planning, Oversight, and Administration. The Contractor shall identify and coordinate their SAS operational planning activities with MSC operational planning activities on a Hanford Site-wide basis.
- Security Conditions (SECON)
  - The Contractor shall conform to and comply with the DOE Security Conditions (SECON) system.
  - The Contractor shall comply with any protective measure requirements that may be implemented in the event of a crisis or emergency, and/or in response to a malevolent or terrorist threat to any or all DOE facilities, assets, and personnel.
- Site Safeguards and Security Plan and Other SAS Plans. The Contractor shall provide information to the MSC in support of maintaining the Hanford Site Safeguards and Security Plan and other SAS plans.

- Vulnerability Assessments. The Contractor shall provide the necessary operational and technical expertise in support of the preparation of vulnerability assessments, security analyses, and special SAS studies and evaluations as identified by the MSC for the Hanford Site.
- Graded Security Protection (GSP). The Contractor shall implement SAS actions, procedures, and/or processes as assigned by DOE that are necessary to comply with DOE GSP requirements. Overall GSP implementation actions and/or plans shall be consolidated and prepared by the MSC and approved by the DOE.
- Performance Assurance. The Contractor shall provide information on a yearly basis to the MSC to support preparation of the Hanford Site-wide Performance Assurance Program Plan as part of the Site Safeguards and Security Plan.
- Surveys, Reviews and Assessments
  - The Contractor shall provide operational and technical expertise, when requested, to support SAS surveys, reviews, assessments and/or SAS performance tests (e.g., force-on-force exercises) that are conducted by the MSC and/or DOE for SAS program elements.
  - The Contractor shall identify, implement, and close corrective actions for deficiencies in accordance with the SAS corrective action management programs.
- Facility Clearance and Registration. In the event that possession of accountable nuclear material is subcontracted to another entity, the Contractor shall submit all required information to the MSC for facility clearance and registration actions.
- SAS Training. The Contractor shall identify SAS training needs for staff and shall arrange, fund, and schedule training in accordance with applicable requirements.
- SAS Awareness
  - The Contractor shall comply with the requirements of the Hanford Security Awareness Program.
  - The Contractor shall maintain awareness of Hanford Site wide security issues/topics and incorporate them into the Contractor's internal practices and procedures, as appropriate.
  - The Contractor shall implement supplementary SAS awareness activities and/or briefings (e.g., at staff and safety meetings) in coordination with Site-wide policies.
- Deviations
  - The Contractor shall identify, evaluate, and submit deviations to SAS requirements to DOE.
  - The Contractor shall coordinate with the MSC prior to submitting deviations to DOE. Deviation requests shall be applicable and unique to the project/program scopes of work, and submitted only when other means to meet

requirements would not meet DOE's SAS program objectives.

- Incidents of Security Concern
  - The Contractor shall develop and implement procedures and processes consistent with DOE requirements for addressing incidents of security concern. The Contractor shall provide information and facility access to the MSC for investigation of security incidents. The Contractor shall develop and implement corrective actions to address investigation findings.
  - The Contractor shall provide information to MSC to support the administration of the Hanford Site Security Infraction Program.

(b) Physical Security

- The Contractor shall comply with the MSC security plans and DOE security plans/requirements.
- The Contractor shall support the MSC in the development or updating of facility asset protection agreements for facilities and shall conduct operations consistent with the agreements.
- The Contractor shall be responsible for any physical security requirements/upgrades and associated costs to Contractor facilities.
- The Contractor is not responsible for physical security requirements/upgrades for Government furnished facilities.
- The Contractor shall submit, through MSC for DOE review and approval, any SAS arrangements or changes prior to operations commencing, or changing operations, or configurations that might alter the performance of existing SAS systems (e.g., limited/protected area boundaries, physical security configurations and associated hardware [sensors/cameras], patrol coverage and responses, safeguards methods or boundaries, entry/access control systems/procedures).

(c) Protective Forces

The protective forces function is comprised of select security elements (armed personnel, specialized equipment, tactical procedures, etc.) associated with physically protecting people and property on the Hanford Site. The MSC is responsible for all protective forces activities; however, there are many areas of facility operations management that interweave with the 222-S Laboratory. The MSC Protective Forces function serves DOE, all Hanford Site contractors, and in particular facilities possessing critical safeguards and security interests, e.g., special nuclear material (SNM).

- The Contractor shall work with MSC Protective Forces to protect SNM, industrial assets, and mitigate and deter radiological and toxicological sabotage events at the 222-S Laboratory.

- The Contractor shall manage their activities consistent with DOE-RL and DOE-ORP approved risk and vulnerability assessments, the Site Safeguards and Security Plan, and other security plans and facility asset protection requirements coordinated by the MSC that involve the use of Protective Forces.

(d) Information Security

The Information Security program encompasses the identification and protection of sensitive and classified information and matter. The Information Security scope shall include, but is not limited to: Sensitive Information Management (e.g., OUO), and Operations Security (OPSEC).

The Contractor shall perform the following information security functions:

- Operations Security
  - The Contractor shall participate in and support Hanford Site-wide OPSEC Working and Awareness groups and perform the necessary management and support functions required for an effective OPSEC program.
  - The Contractor shall provide support to the MSC OPSEC assessments of all Hanford Site facilities that have the potential to process or store classified or sensitive information.
  - The Contractor shall support the annual Site OPSEC threat assessment and preparation of the annual OPSEC plan.
- Official Use Only (OUO). The Contractor shall manage and implement an OUO information program consistent with the common Hanford Site-wide OUO information program policies including the following:
  - Provide OUO education and awareness for all staff; and
  - Review documents released to the public or assigned a formal document number for OUO content.
- Critical Infrastructure. The Contractor shall maintain information systems that are critical to the Hanford Site mission and shall protect these systems from internal and external threats in conjunction with the MSC SAS program.

(e) Personnel Security-Badging

The MSC manages and conducts a centralized Personnel Security-Badging program for the Hanford Site on behalf of DOE.

- The Contractor shall obtain badging services from MSC
- The Contractor shall support MSC's processes for obtaining security badges, keys, proximity cards, etc., from terminating

employees and support the MSC in removing such individuals from automated access control systems.

(f) Workplace Substance Abuse Programs

The Contractor shall comply with requirements outlined in 10 CFR 707, Workplace Substance Abuse Programs (WSAP) at DOE Sites.

(g) Unclassified Foreign National Visits and Assignment (FNVA)

- The Contractor shall notify the MSC of potential foreign visitors or employees, prepare and submit security plans to the MSC for foreign national visitors to the Hanford Site before approval of the visit/assignment
- The Contractor shall require FNVA training for Contractor personnel who host FNVAs.
- The Contractor shall conduct FNVA in compliance with approved security plans.

(h) Foreign Travel

The Contractor shall administer Official Foreign Travel in accordance with applicable DOE Orders, submitting all official foreign travel requests packages to DOE-ORP for review and subsequent submittal to DOE-HQ for approval in accordance with established timeframes prior to any official foreign travel. Notification to CO and approval by CO before being submitted to HQ is required for any foreign travel.

(i) Nuclear Material Control and Accountability (MC&A)

The MSC manages and conducts a centralized MC&A program for the Hanford Site on behalf of DOE. The Contractor shall perform the following MC&A Functions:

- Assign an individual that will serve as the Contractor's MC&A single point-of-contact, independent of line operations, with the responsibility and authority to affect implementation of MC&A requirements. This individual shall work with the Hanford Site MC&A management official within the MSC to provide oversight of accountable nuclear material in possession of the TOC.
- Support the MSC in preparation and maintenance of a Hanford Site-wide MC&A plan, administration of treaty related activities (e.g., IAEA), performing safeguards occurrence investigation and reporting, scheduling of periodic inventories consistent with the Contractor's project work schedules.
- Identify personnel requiring MC&A training provided by the MSC and coordinate training schedules with the MSC.

- Conduct on-the-job MC&A training specific to 222-S Laboratory facilities and systems.
- Request from the MSC:
  - Final authorization to move, ship, process, or store nuclear materials, including approval of shipper/receiver plans;
  - Final approval of Material Balance Area (MBA) Custodians; and
  - Final determination of MBA categorizations; and
  - Final approval of MC&A-related implementing procedures.
- Respond to MSC or DOE calls related to the MC&A program.

The Contractor shall coordinate and integrate all aspects of its MC&A activities with the MSC. The Contractor shall utilize the MSC for:

- MC&A requirement interpretation with overall responsibility for the MC&A program;
- Training and qualification of all personnel performing MC&A functions (with the exception of specific facility/system on-the-job MC&A training);
- Nuclear materials accounting and reporting requirements for all nuclear materials both active and inactive (e.g., “V-RIS”) and be responsible for the official nuclear material inventory, including discrepancy reconciliation;
- Statistical Services needed for managing nuclear material;
- Purchasing, regulating, and managing MC&A-controlled forms and tamper indicating devices; and
- Nuclear materials measurement system approvals and measurement system control requirements for all MC&A nuclear materials measurement activities (e.g., monitoring measurement control information; collecting and analyzing measurement control information; calculating control limits and monitoring equipment performance against those limits, etc.).

The Contractor shall integrate MC&A requirements with other plans, projects/programs, and activities at all life-cycle stages and inform the MSC of such. The Contractor shall proactively take into account MC&A requirements, systems, and technologies in the planning, design, construction, and operation of new or renovated DOE facilities and activities.

#### **C.2.1.5.2 Emergency Services**

The TOC maintains the Emergency Management Program at the 222-S Laboratory, interfacing with and training Contractor support staff at. The Contractor shall proactively support the TOC Emergency Preparedness Coordinator in development, implementation, assessment, and testing of the



Emergency Management Program, including participation in the annual Emergency Preparedness assessment. The Contractor shall designate an individual on its staff to serve as point of contact for emergency preparedness, shall provide a representative at the DOE Emergency Operations Center during emergencies affecting the 222-S Laboratory, and shall designate three or more individuals qualified as members of the Facility Emergency Response Organization. The Contractor shall provide staff to serve as observers, controllers, and /or evaluators during emergency preparedness drills. The Contractor shall provide qualified Building Emergency Directors and/or other trained emergency preparedness response staff on an as-needed basis to support day shift emergency management needs.

The MSC manages and conducts the Fire Services for the Hanford Site. This includes wild land fire, structural fire, and ambulance emergency response. Also included, are activities, such as, hazardous material and chemical/biological/radiological emergency response, pre-fire planning, site-wide respiratory protection services, and the testing and maintenance of life safety fire protection systems in designated facilities. The Contractor shall support facility access to the MSC fire services personnel, and notify the Fire Department of work activities, events, and incidents that may require Fire Services involvement and/or response (e.g emergency medical assistance, hazardous or radiological emergency help, etc.).

#### **C.2.1.6 Interface Management**

Numerous interfaces exist between the Hanford Laboratory Services Contractor, MSC, PRC, TOC, other Hanford Site contractors, and the DOE Offices. Because the Contractor shares facilities with the TOC and the bulk of analyses are performed for the TOC, the interface between the Contractor and the TOC is of particular importance. The following paragraphs describe general features and requirements for Contractor interface management:

- (a) A site-wide plan (MSC-IMP-00001 Hanford Site Interface Management Plan) signed by the PRC, MSC, and TOC Contractors provide a framework for inter-contractor relations and establishes interface-related processes. The Contractor may, at its option, participate in the various boards, teams, and committees established by the Hanford Site Interface Management Plan subject to the rules established by those groups.
- (b) The Contractor, in the course of fulfilling its obligations under this Contract, will provide services to, or receive services from, other Hanford Site U.S. Department of Energy (DOE) prime contractors. Section J, Attachment J.3 entitled, Hanford Site Services and Interface Requirements Matrix (Matrix) identifies the service provider and the associated general interface obligations. The Matrix is not an all-inclusive listing of services that may be required or provided; however; all services provided to another contractor shall fall within the scope of the provider's contract.

Individual interfaces are established and managed through various controlling agreements such as Interface Control Documents (ICDs), Memoranda of Agreement/Understanding (MOA/MOU), Administrative Interface Agreements, and Service Level Agreements. At a minimum, controlling agreements shall define:

- The interface and/or the services work request elements, and service levels (quantity and delivery rates);
- If applicable, the method and timing for charging costs associated with the service and the payment methods; and target performance measures for meeting required service levels;
- Decision process and a robust dispute resolution process; and
- Clear delineation of roles, responsibilities, accountabilities, and authorities.

(c) Services are identified in the Matrix as either "Mandatory," or "Optional."

- "Mandatory" services, if needed by the Contractor, shall be obtained by the indicated provider. If, for any reason, a provider of a mandatory service cannot provide the required service to meet the requesting contractor's needs, the requesting contractor must obtain Contracting Officer approval prior to obtaining the services from any other source.
- "Optional" services are non-compulsory.
- If the Contractor believes it is in DOE's interest to change a "Mandatory" service to "Optional" so that it may be self-performed or procured from a different source, the Contractor shall propose this change to the DOE Contracting Officer, providing a written justification showing the benefits of the change and the describing impacts to all parties to the interface. If, at the unilateral discretion of the Contracting Officer, the decision is made to implement the proposed change, the change will not take effect until the Contractor receives Contracting Officer direction to implement the change. Contracting Officer rejection or delay of a proposed change shall not be the basis for a Request for Equitable Adjustment (REA) or subject to the Section I Clause entitled, FAR 52.233-1, Disputes – ALT I (DEC 1991).

(d) The Contractor shall resolve interface-related issues as agreed within individual service delivery agreements or using the process described in the Hanford Site Interface Management Plan. If these are unsuccessful, the Contractor may elevate the issue to the Contracting Officer. The Contractor shall, with coordination and adequate preparation, allow service-providing contractors access to its work areas to perform agreed-upon services. The Contractor shall coordinate with the TOC to ensure that any work performed within

the 222-S Laboratory by other contractors is within the facility Technical Safety Requirements and operating permits..

- (e) In cooperation with the TOC, the Contractor shall respond to annual requests for input to the Infrastructure and Services Alignment Plan (ISAP) and the Annual Forecast of Services and Infrastructure.
- (f) Fee-for-Service providers shall provide to DOE and make available to users an adequate basis for liquidation of the charge for usage-based, "Mandatory" services. Service rates will be developed by the providers based upon customer-projected usage and may be subsequently adjusted to account for unplanned changes in demand.
- (g) Contractors retain the responsibility to reach agreement on interfaces and for the appropriate delivery of services. The Government makes no guarantees or warranties regarding the delivery of services, and services between contractors shall not constitute government-furnished services or government-furnished information. The Government shall not be held responsible for the delivery or non-delivery of services between Hanford Site contractors. Contractors shall resolve any disputes regarding service interfaces and the provision of services among themselves. If contractors are unable to achieve a timely resolution of issues between themselves regarding interfaces or the appropriate delivery of services, contractors may seek direction from the Contracting Officer. DOE shall be the exclusive authority for resolving disputes associated with any interface issues that cannot be resolved between parties in a timely manner. Any litigation undertaken by the Contractor to resolve disputes over services is at the Contractor's own risk.

#### **C.2.1.7 Records Management**

The Contractor shall establish, within 60 days of the notice to proceed, a Records Management Plan (Deliverable C-11) in accordance with applicable laws and DOE Orders. All records (see 44 USC 3301 for statutory definition of a record) acquired or generated by the Contractor in performance of this contract, except for those defined as contractor-owned (see Section I, DEAR 970.5204-3, Access to and Ownership of Records), including records from the predecessor contractor and records described by the contract as being maintained in Privacy Act systems of records, shall be the property of the Government.

#### **C.2.1.8 Training**

The Contractor is responsible for establishing, implementing and maintaining a training program to ensure that all employees are qualified to perform their assigned duties. The training program shall be in accordance with DOE Orders for nuclear facility operations. The Contractor shall maintain records documenting the qualification and certification of its personnel.

The TOC provides required facility specific-training at no charge. Attachment J-3 identifies other training that the Contractor is required to purchase from the MSC and provide to affected employees.

#### **C.2.1.9 Contract Transition**

- (a) Upon Contracting Officer (CO) issuance of the Notice to Proceed, the Contractor shall begin transition from the incumbent provider of laboratory services for a period of sixty (60) days. During the transition period, the incumbent contractor will be responsible for delivery of laboratory services. The Contractor shall assume full responsibility for delivery of laboratory services as approved by the CO at the end of the transition period.
- (b) During the transition period as specified in the clause in Section F entitled "Period of Performance," the Contractor shall perform those activities that are necessary to transition work from the incumbent contractor in a manner that:
  - Assures that all work for which the Contractor is responsible under the contract is continued without disruption;
  - Provides for an orderly transfer of resources, responsibilities, and accountability from the incumbent contractor; and
  - Assures that when the transition period is complete the Contractor is ready to perform the work in an effective, compliant, and safe manner.
- (c) The Contractor is responsible for securing its own personnel and logistical support (office space, computers, telephone, etc.) during the transition period unless specifically directed otherwise by the Contracting Officer.
- (d) The Contractor shall submit a Transition Plan (Deliverable C-01) to the Contracting Officer for approval within seven days after notice to proceed. The plan shall include a schedule of major activities, and at a minimum will address:
  - Communication process among DOE, the incumbent Contractor, assigned subcontractors, incumbent employees, other Hanford Site contractors, and site tenants;
  - Identification of key transition issues and milestones;
  - Identification of a transition team (inclusive of consultants and teaming members, if any);
  - Integration of work packages (direct and indirect) and budgets from the incumbent contractor;
  - Approach to minimizing impacts on continuity of operations;
  - Assumption of laboratory operations;
  - Human resource management;

- Implementation plan for the management systems (procedures, plans, guides, instructions, operator aids, and other controlled documents) required to accomplish the scope of Sections C.2.1 and C.2.2.
  - Development of all interface control documents identified in Section C.2.1.6;
  - Preparation of the Quality Assurance Program Plan (Deliverable C-12) and submission for DOE approval;
  - Establishment of an invoicing system that is acceptable to the CO;
  - Assumption of existing procedures; and
  - Assumption of permits, applications, licenses, and other regulatory documents.
- (e) The Contractor shall provide a Communications Plan (Deliverable C-10) to the Contracting Officer within seven days of receiving Notice To Proceed and update it on an as-requested basis. The Communications Plan shall address the following:
- Internal and external communications during contract award and transition
  - Internal Communications (establishing a point of contact and a protocol for receiving and forwarding site wide information to employees)
  - External Communications (establishing a point of contact and a protocol for receiving inquiries and doing external outreach)
- (f) Within seven days of notice to proceed, the Contracting Officer will provide to the Contractor a list of all incumbent personnel.
- (g) The Contractor shall provide in-process verification of Contract transition through weekly written Transition Status Reports (Deliverable C-02).
- (h) The Contractor and the incumbent contractor shall jointly reconcile the government property inventory and provide a written reconciliation of to the Contracting Officer (Deliverable C-06, Physical Inventory Report) within 60 days of the notice to proceed. This information shall be used to provide a baseline for this contract and for closeout of the predecessor contract.
- (i) The Contractor shall develop the inter-contractor ordering and financial agreements as defined by the Section J, Attachment J.3 entitled, Hanford Site Services and Interface Requirements Matrix and Service Level Agreements defined by Section C.1.2.5 that are necessary to support Transition and Contract performance.

- (j) The Contractor shall prepare a Property Management Plan (Deliverable C-04) within 60 days of the notice to proceed, to be updated as needed.
- (k) The Contractor shall prepare an Assurance System Description (Deliverable C-15) within 60 day of the notice to proceed, to be updated as needed.
- (l) After completion of the transition activities contained in the approved transition plan and such other transition activities as may be authorized or directed by the Contracting Officer, the Contractor shall notify the Contracting Officer in writing that it is ready to assume full responsibility for the work (Deliverable C-14). Upon written approval from the Contracting Officer, the Contractor shall assume full responsibility for the work the day after the end of the transition period specified in Section F.03, Period of Performance.

#### **C.2.1.10 Government Furnished Facilities, Property, and Services**

The Contractor will be provided with facilities, programs, and services to accomplish its mission. A detailed listing of services and information is given in Section J, Attachment J.3 entitled, Hanford Site Services and Interface Requirements Matrix (Matrix). The Contractor shall integrate these services with the analytical services scope.

The Contractor is encouraged to review the Facilities, Equipment and Services during the contract period and make recommendations for improvements or changes that will effect cost savings to the government and/or benefit DOE's cleanup mission at the Hanford site. Facilities and analytical equipment will be available and maintained as described below.

##### **C. 2.1.10.1 Facilities**

The 222-S complex consists of the 222-S Building, a 70,000 square foot laboratory facility, which includes 11 hot cells for handling and analyzing highly radioactive samples, and the auxiliary buildings that support the analytical chemistry mission. The analytical services will be primarily performed at the 222-S Building with nearby office spaces available for use by laboratory personnel.

##### **C.2.1.10.2 Instrumentation**

The types of laboratory equipment available to the Contractor are listed below.

Sample Preparation Equipment:

- Liquid/liquid extractors
- Solid phase extraction apparatus
- Toxicity Characteristic Leaching Procedure apparatus

- Acid digestion apparatus
- Water digestion apparatus

Inorganic Instrumentation:

- Inductively Coupled Plasma/Mass Spectrometer systems (ICP/MS)
- ICP/AES (Atomic Emission Spectrometer systems)
- Thermal scanning calorimeters
- Differential Scanning Calorimeters (DSC)
- Ion Chromatographs (IC)
- Scanning Electron Microscopes (SEM)
- Thermal Gravimetric Analyzers (TGA)

Organic Instrumentation:

- Total Organic Carbon analyzers
- Gas Chromatographs
- Gas Chromatograph/Mass Spectrometers (GC/MS)

Radiochemistry Instrumentation:

- Liquid Scintillation Counters
- Alpha/Beta Proportional Counters, and
- Gamma (GEA) and Alpha Energy Analyzers (AEA)

In addition to the analytical equipment above, the laboratory also has 26 remote manipulators installed for use in hot cells. Any needed maintenance and repair of instruments and equipment that falls outside the scope of the procedures used for routine calibration, cleaning of equipment, and sample analysis will be provided at no charge to the Contractor.

**C. 2.1.10.3 Information and Telecommunications Technology, Software, and Support**

Electronic databases used for administration of the laboratory operations work scope will be turned over to the Contractor at transition. The Contract shall be provided with access to the software programs listed in Section C.2.1.6.10.

Computer work stations including basic software (Windows operating system, Microsoft Office, anti-virus protection, and Hanford site applications required for lab operation), networking with the Hanford Large Area Network (HLAN), file storage areas, and associated support will be provided at no charge to the Contractor. The Contractor is responsible for any workstations added above the existing configuration, for peripheral equipment such as printers and scanners installed in individual offices, for its own business administrative software systems (compliant with Hanford Site requirements), and the cost of any additional software

The Contractor will be provided with a telephone network and associated desktop units. The Contractor is responsible for telephone usage charges and for costs associated with any changes to the telecommunications configuration.

Any Non-Government furnished items brought into the Government-owned or leased facilities are at the Contractor's own risk.

#### **C. 2.1.10.4 Supplies and Equipment**

Laboratory equipment, chemicals, and supplies are provided by the TOC at no charge to the Contractor. Purchases are made through DOE-approved vendors. The TOC maintains the Approved Chemical Suppliers List.

Dosimeters and other instruments used to monitor personnel exposure to radiation are provided at no charge to the Contractor. Personal protective equipment that is not customized to the user, for example clothing, is provided at no charge. Respiratory protection equipment, including fitted masks, is also provided at no charge, (although mask fitting is not a government furnished service; see Section J, Attachment, entitled, Hanford Site Services and Interface Requirements Matrix (Matrix)). The Contractor is responsible for purchasing any other custom or specially-fitted clothing and equipment required by its employees, including prescription safety glasses, boots/shoes, and ergonomic office equipment.

#### **C. 2.1.10.5 Other Government Furnished Services**

TOC provides a shared pool of Radiological Control Technicians who support operations at the 222-S Laboratory. TOC maintains the safety basis for the 222-S Laboratory including the Documented Safety Analysis (DSA) and Technical Safety Requirements (TSR) which are provided in Section J, Attachment J.6. TOC performs facility maintenance and provides those utilities as are normally required for operation of an analytical laboratory.

DOE will directly pay the fee for the Contractor's required medical support for Hanford badged employees assigned to this contract. Medical support services are provided by the site Occupational Medical Services Provider and include walk-in medical consultation and first aid, occupation-related medical monitoring examinations, ergonomic assessment, services associated with the beryllium medical program, influenza vaccinations, behavioral health services, health education, and case management. The Contractor is responsible for any costs associated with missed appointments (No Shows).

DOE will directly fund the following services at no cost to the Contractor: document control services and records archiving, self-service printers and copiers, document shredding and material recycling; badging, the workplace substance abuse program, and supply ordering service. The DOE Employee Concerns Program (ECP) is available to Contractor staff without charge to the Contractor although the Contractor is still required to maintain its own ECP (Deliverable C-09).



The MSC provides fee-based services as described in Section C.2.1.6 and Section J, Attachment J.3.

#### **C.2.1.10.6 Hanford Site Data Systems**

The Contractor shall be provided access to, and where applicable shall use the following systems:

- Chemical Inventory Tracking System (CITS): Site wide database that keeps track of all hazardous chemicals, their locations and quantities.
- OmniLIMS™: A laboratory information management system that accumulates analytical data directly from instruments and from manual input. It also includes tools for data reduction, conversion to proper electronic formats and report generation.
- OPEXShare (OPERating EXperience Sharing): This Web site contains Hanford related operating experience articles including Lessons Learned, Safety Bulletins, Recalls, and other types of information that can be used for preventing recurrence of events, and sharing of good work practices.
- Hanford Information Systems Inventory (HISI): Site wide database tracking controlled software that is safety significant.
- Integrated Document Management System (IDMS): Hanford Site approved electronic records management tool.
- Integrated Training Electronic Matrix (ITEM): Site-wide system used to track training.
- Material Safety Data Sheets (MSDS) System: Site wide database used for retrieving Material safety data sheets for chemicals used by Hanford contracts.
- System Change Request (SCR): The SCR system maintains and stores work records for system development efforts.
- Sunflower Asset Management System (SAMS) Property Management Database.
- Computerized Accident/Incident Reporting System (CAIRS): a database for recording incidents involving injuries or requiring first aid.
- FCPA electronic reporting system.

#### **C.2.2 SURGE ANALYTICAL SERVICES (LABOR HOUR SCOPE)**

This section is to be used when a “surge” occurs which requires increased labor hours and/or the addition of more staff. Such work is identified as Labor-Hour scope and may be triggered by the following:

- Negotiation of one or more Service Level Agreements with customers that exceed the capacity of Lab staff described in Attachment J-12, when need-by dates do not allow for any reasonable resource-leveling strategy.

- An emergent event requiring analytical support in excess of expected levels.

Even when the workload does not exceed the capacity of Lab staff in Attachment J-12, the CO may nevertheless authorize use of this section under special circumstances.

Each request for authorization under this section shall be approved by the Contracting Officer prior to the work being performed. Work surge will not be authorized if the Contractor staff assigned to Section C.2.1 work scope is not in accordance with the Contractor's Staffing Plan in Section J, Attachment J.12.

### **C.2.3 PENSIONS AND OTHER BENEFIT PLANS**

- a. The Contractor shall manage pensions and other employee benefit plans in accordance with the Section H clauses entitled "Pension and Benefit Plans" and "Post-Contract Responsibilities For Pension And Other Benefit Plans".
- b. The Contractor shall be responsible for the pension costs for the Incumbent Employees, as defined in Section H clause entitled "Pension and Benefit Plans," it hires to perform work under the contract beginning the first day after the end of the transition period.

## **ATTACHMENT C.1 REQUIRED LABORATORY PROCESSES AND ANALYSES**

### **Processes**

- Sample Breakdown
- Homogenize Sample
- Centrifuge Sample
- Composite Sample
- Bulk Density
- Volume of % Centrifuged Solids
- Liquid Weight
- Solid Weight
- Volume of Solid
- Acid Digest for ICP/AA/Radiochemistry
- Water Digest for ICP/AA/Radiochemistry
- Fusion with KOH
- Solvent Extractions
- Water Digest (no acid)
- Quality Control Standards, Blanks and Calibration Samples

### **Analyses**

#### **Inorganic, Physical Analyses, Total Organic Carbon**

- Ammonium by Ion Chromatography (IC)/Cations by IC
- Endotherm and Exotherm Analysis by TA DSC
- Iso Uranium by ICP/Mass Spectrometry(MS)
- Specific Gravity
- % Water by Thermo Gravimetric Measurement
- Anions by IC
- ICP Acid Digest/Routine Analysis
- Total Organic Carbon by Persulfate/Coulometry
- Hg and NH<sub>3</sub> Vapor Tube Analysis

#### **Organic Analyses**

- PCB Sample Preparation
- PCB Analyses (SW846 8082)
- Volatile Analyses (SW846 8260)
- Semivolatile Analyses (SW846 8270)

#### **Radionuclide Analyses**

- Alpha in liquid sample
- Am<sup>241</sup>, Cm<sup>243</sup> by TRU-SPEC Resin
- Plutonium (Pu) <sup>238</sup>, <sup>239</sup> by TRU-SPEC Resin
- GEA, AEA
- Alpha/Beta and Liquid Scintillation Counters
- Strontium (Sr) <sup>89/90</sup> High Level

**Data Reporting**

- Full Data Package
- Summary Data Package
- Summary Data Package with Quality Assurance and TCD Upload